
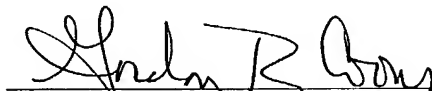


U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 USC 371 AND 37 CFR 1.491		ATTORNEY DOCKET NO. 215849 U.S. APPLICATION NO. 10/069650
INTERNATIONAL APPLICATION NO. PCT/GB00/02975	INTERNATIONAL FILING DATE 2 August 2000	PRIORITY DATE CLAIMED 27 August 1999
TITLE OF INVENTION SEALING AND GUIDING STRIP FOR A WINDOW		
APPLICANT(S) FOR DO/EO/US MAASS, Klaus P.		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 USC 371 and 37 CFR 1.491.		
2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 USC 371 and 37 CFR 1.491.		
3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 USC 371(f)).		
4. <input type="checkbox"/> The US has been elected by the expiration of 19 months from the priority date (PCT Article 31).		
5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 USC 371(c)(2)) <ul style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input checked="" type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 		
6. <input type="checkbox"/> An English language translation of the International Application as filed (35 USC 371(c)(2)).		
7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 USC 371(c)(3)) <ul style="list-style-type: none"> a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. 		
8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 USC 371(c)(3)).		
9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 USC 371(c)(4)).		
10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 USC 371(c)(5)).		
11. Nucleotide and/or Amino Acid Sequence Submission <ul style="list-style-type: none"> a. <input type="checkbox"/> Computer Readable Form (CRF) b. Specification Sequence Listing on: <ul style="list-style-type: none"> i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or ii. <input type="checkbox"/> Paper Copy c. <input type="checkbox"/> Statement verifying identity of above copies 		
Items 12 to 19 below concern other document(s) or information included:		
12. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. <ul style="list-style-type: none"> <input type="checkbox"/> Form PTO-1449 <input type="checkbox"/> Copies of Listed Documents 		
13. <input type="checkbox"/> An assignment for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.		
14. <input checked="" type="checkbox"/> A FIRST preliminary amendment. <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment.		
15. <input type="checkbox"/> A substitute specification.		
16. <input type="checkbox"/> A change of power of attorney and/or address letter.		
17. <input checked="" type="checkbox"/> Application Data Sheet Under 37 CFR 1.76		
18. <input checked="" type="checkbox"/> Return Receipt Postcard		
19. <input type="checkbox"/> Other items or information:		

U.S. APPLICATION NO. <div style="font-size: 2em; font-weight: bold; text-align: center;">10/069650</div>		INTERNATIONAL APPLICATION NO. PCT/GB00/02975		ATTORNEY DOCKET NO. 215849																																																																													
20. <input checked="" type="checkbox"/> The following fees are submitted: Basic National Fee (37 CFR 1.492(a)(1)-(5)): Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO \$1,040.00 International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO \$ 890.00 International preliminary examination fee (37 CFR 1.482) not paid to USPTO, but international search fee (37 CFR 1.445(a)(2)) paid to USPTO \$ 740.00 International preliminary examination fee paid to USPTO (37 CFR 1.482) but all claims did not satisfy provisions of PCT Article 33(1)-(4) \$ 710.00 International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(1) to (4) \$ 100.00 <div style="text-align: right; margin-top: 5px;">ENTER APPROPRIATE BASIC FEE AMOUNT=</div>				CALCULATIONS	PTO USE ONLY																																																																												
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NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.																																																																																	
SEND ALL CORRESPONDENCE TO: Customer Number: 23460																																																																																	
 <div style="font-size: 1.5em; font-weight: bold;">23460</div>			 Gordon R. Coons, Registration No. 20821 One of the Attorneys for Applicant(s)																																																																														
PATENT TRADEMARK OFFICE			Date: February 26, 2002																																																																														

U.S. APPLICATION NO. 10/069650	INTERNATIONAL APPLICATION NO. PCT/GB00/02975	ATTORNEY DOCKET NO. 215849
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CERTIFICATION UNDER 37 CFR 1.10

"Express Mail" Label Number: EL841017855

Date of Deposit: February 26, 2002

I hereby certify that this express request to begin national examination procedures under 35 USC 371(f) of the International Patent Application referenced above, including all of the items listed thereon as enclosures, is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" Service under 37 CFR 1.10 on the date indicated above and is addressed to Box PCT, Commissioner for Patents, Attention: DO/EO/US, Washington, D.C. 20231.

CAROL A. GRAVES

Printed Name of Person Signing:

Carol A. Graves

Signature

10005610/069650

JC19 Rec'd PCT/PTO 26 FEB 2002

PATENT

Attorney Docket No. 215849

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Klaus P. MAASS

Art Unit: Unassigned

Corres. to International

Application No. PCT/GB00/02975

Examiner: Unassigned

Filed: Concurrently

For: SEALING AND GUIDING STRIP FOR A WINDOW

PRELIMINARY AMENDMENT

Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Prior to the examination of the above-identified patent application, please enter the following amendments and consider the following remarks.

AMENDMENTS

IN THE CLAIMS:

Please replace claims 1-14 with the following:

1. (Amended) A window sealing and guiding channel for a window opening having a sharp corner, comprising a channel base and first and second integral channel side walls made of flexible material, each side wall having a lip extending along its distal edge, the lip on the first side wall being separated from that side wall over a region extending along a portion of the channel including the sharp corner, the separated lip smoothly bridging across the sharp corner, the lip on the second side wall being separated from that side wall at the corner and mitre-cut there to form a mitre joint matching the sharp angle, an insert being secured between the separated lip of the first

side wall and the remainder of that side wall over the said region, in which the channel further comprises a third wall extending from the channel base adjacent the first side wall and made of flexible material, the third wall having a lip extending along its distal edge which is separated from that side wall at the corner and which follows a smooth curve between the mitre joint of the second side wall lip and the curve of the first side wall lip and which thereby substantially overlies the said insert.

2. (Amended) A channel according to claim 1, in which the base and at least parts of the walls are removed at the sharp corner and replaced by corresponding parts of the said insert, the corresponding parts being secured in position in the channel.

3. (Amended) A channel according to claim 1, in which the lip of the said first side wall is separated from that side wall not only over the said region but also to an end of the channel, the separated lip being re-secured to the first side wall outside the said region.

4. (Amended) A channel according to claim 1, in which the lip of the third wall not only over the said region but also to an end of the channel, the separated lip being re-secured to the third wall outside the said region.

5. (Amended) A channel according to claim 1, in which the insert is a moulded insert.

thereafter progressively decreases that spacing to zero at a second position on the opposite side of the sharp corner to the first position, in which the channel has a third channel wall having a distal edge carrying a respective lip, the third wall being adjacent the first side wall and being cut through to separate its distal edge portion including the lip from the remainder of the wall, the cut extending along the length of the wall from the first position and through the sharp corner, the distal edge portion of the third wall being formed into a smooth curve bridging across the sharp corner between the smooth curve of the distal edge portion of the first wall and the mitred joint of the distal edge portion of the second wall and overlying the insert, the remainder of the first, second and third walls and the base of the channel being removed at the sharp corner and replaced by a moulded channel part integrally moulded with the insert.

10. (Amended) A channel according to claim 9, in which the insert is previously produced by a moulding operation.

11. (Amended) A channel according to claim 9, in which the respective lips of the first and third walls partially bridge across the mouth of the channel for contacting and sealing against opposite sides of the window glass.

12. (Amended) A channel according to claim 1, including a lip within the channel and incliningly extending from the base thereof for engaging an edge of the window glass.

In re Appln. of Maass
Corres. to Int'l Application No. PCT/GB00/02975

13. (Amended) A channel according to claim 1, in which the window glass is a slidable window glass in a motor vehicle.

14. (Amended) A channel according to claim 13, in which is mounted in a rigid frame carried by the door of the motor vehicle.


In re Appln. of Maass
Corres. to Int'l Application No. PCT/GB00/02975

REMARKS

Claims 1-14 are currently pending the present application. Claims 1-14 have been amended to remove the reference numbers. Claims 3-8 and 11-13 also have been amended to remove the multiple dependency of those claims. No new matter has been made by way of these amendment.

If, in the opinion of the Examiner, a telephone conference would expedite the prosecution of the subject application, the Examiner is invited to call the undersigned attorney.

Respectfully submitted,



Gordon R. Coons, Reg. No. 20821
One of the Attorneys for Applicant(s)
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Two Prudential Plaza, Suite 4900
180 North Stetson
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(312) 616-5700 (facsimile)

Date: February 26, 2002

PATENT
Attorney Docket No. 215849

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Klaus P. MAAS

Art Unit: Unassigned

Corres. to International
Application No. PCT/GB00/02975

Examiner: Unassigned

Filed: Concurrently

For: SEALING AND GUIDING STRIP FOR A WINDOW

**AMENDMENTS TO THE CLAIMS
MADE VIA PRELIMINARY AMENDMENT**

Please amend claims 1-14 as follows:

1. (Amended) A window sealing and guiding channel for a window opening having a sharp corner, comprising a channel base [(22)] and first and second integral channel side walls [(24,26)] made of flexible material, each side wall [(24,26)] having a lip [(28,30)] extending along its distal edge, the lip [(28)] on the first side wall [(24)] being separated from that side wall [(24)] over a region extending along a portion of the channel including the sharp corner, the separated lip smoothly bridging across the sharp corner, the lip [(30)] on the second side wall [(26)] being separated from that side wall at the corner and mitre-cut there to form a mitre joint matching the sharp angle, an insert [(47,48)] being secured between the separated lip [(28)] of the first side wall [(24)] and the remainder of that side wall [(24)] over the said region, [characterised in that] in which the channel further comprises a third wall [(25)] extending from the channel base [(22)] adjacent the first side wall [(24)] and made of flexible material, the third wall [(25)] having a lip [(29)] extending along its distal edge which is separated from that side wall

6. (Amended) A channel according to [any preceding] claim 1, [characterised in that] in which the insert [(47)] is secured using an adhesive material.

7. (Amended) A channel according to [any of claims] claim 1 [to 5], [characterised in that] in which the insert [(47)] is secured by being moulded onto the channel base [(22)] and walls [(24,25,26)].

8. (Amended) A channel according to [any preceding] claim 1, [characterised in that] in which the channel base [(22)], side walls [(24,25,26)] and lips [(28,29,30)] are produced by extrusion.

9. (Amended) A window sealing and guiding channel for sealing and guiding a window glass having a sharp corner, the channel having a base [(22)] and integral first [(24)] and second [(26)] channel walls each having a distal edge carrying a respective lip [(28,30)], the first wall [(24)] being cut through to separate its distal edge portion including the lip [(28)] from the remainder of the wall [(24)], the cut extending along the length of the each wall [(24)] from a first position on one side of the sharp corner, and through the sharp corner, the second wall [(26)] being cut through at the sharp corner to separate a distal edge portion thereof including the respective lip [(30)] from the remainder of that wall [(26)], the distal edge portion of the second wall [(26)] being itself cut through at the sharp corner to form a mitred joint therein matching the sharp corner, the distal edge portion of the first wall [(24)] being formed into a smooth curve bridging across the sharp corner, an insert [(47,48)] being secured in position between and spacing

apart the distal edge portion of the first wall [(24)] and the said remainder thereof, the insert [(47,48)] having a size which from the said first position to the sharp corner progressively increases the spacing between the distal edge portion of the first wall [(24)] and the remainder thereof and thereafter progressively decreases that spacing to zero at a second position on the opposite side of the sharp corner to the first position, [characterised in that] in which the channel has a third channel wall [(25)] having a distal edge carrying a respective lip [(29)], the third wall [(25)] being adjacent the first side wall [(24)] and being cut through to separate its distal edge portion including the lip [(29)] from the remainder of the wall, the cut extending along the length of the wall [(25)] from the first position and through the sharp corner, the distal edge portion of the third wall [(25)] being formed into a smooth curve bridging across the sharp corner between the smooth curve of the distal edge portion of the first wall [(24)] and the mitred joint of the distal edge portion of the second wall [(26)] and overlying the insert [(47,48)], the remainder of the first, second and third walls [(24,26,25)] and the base [(22)] of the channel being removed at the sharp corner and replaced by a moulded channel part [(50)] integrally moulded with the insert [(47,48)].

10. (Amended) A channel according to claim 9, [characterised in that] in
which the insert [(47,48)] is previously produced by a moulding operation.

11. (Amended) A channel according to claim 9 [or 10], [characterised in that] in which the respective lips [(28,29)] of the first and third walls [(24,25)] partially

bridge across the mouth of the channel for contacting and sealing against opposite sides of the window glass.

12. (Amended) A channel according to [any preceding] claim 1, [characterised by] including a lip [(44)] within the channel and incliningly extending from the base [(22)] thereof for engaging an edge of the window glass.

13. (Amended) A channel according to [any preceding] claim 1, [characterised in that] in which the window glass is a slidable window glass in a motor vehicle.

14. (Amended) A channel according to claim 13, [characterised in that it] in which is mounted in a rigid frame [(12,20)] carried by the door of the motor vehicle.

PATENT
Attorney Docket No. 215849

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Klaus P. MAAS

Art Unit: Unassigned

Corres. to International
Application No. PCT/GB00/02975

Examiner: Unassigned

Filed: Concurrently

For: SEALING AND GUIDING STRIP FOR A WINDOW

PENDING CLAIMS AFTER ENTRY OF PRELIMINARY AMENDMENT

1. A window sealing and guiding channel for a window opening having a sharp corner, comprising a channel base and first and second integral channel side walls made of flexible material, each side wall having a lip extending along its distal edge, the lip on the first side wall being separated from that side wall over a region extending along a portion of the channel including the sharp corner, the separated lip smoothly bridging across the sharp corner, the lip on the second side wall being separated from that side wall at the corner and mitre-cut there to form a mitre joint matching the sharp angle, an insert being secured between the separated lip of the first side wall and the remainder of that side wall over the said region, in which the channel further comprises a third wall extending from the channel base adjacent the first side wall and made of flexible material, the third wall having a lip extending along its distal edge which is separated from that side wall at the corner and which follows a smooth curve between the mitre joint of the second side wall lip and the curve of the first side wall lip and which thereby substantially overlies the said insert.

2. A channel according to claim 1, in which the base and at least parts of the walls are removed at the sharp corner and replaced by corresponding parts of the said insert, the corresponding parts being secured in position in the channel.

3. A channel according to claim 1, in which the lip of the said first side wall is separated from that side wall not only over the said region but also to an end of the channel, the separated lip being re-secured to the first side wall outside the said region.

4. A channel according to claim 1, in which the lip of the third wall not only over the said region but also to an end of the channel, the separated lip being re-secured to the third wall outside the said region.

5. A channel according to claim 1, in which the insert is a moulded insert.

6. A channel according to claim 1, in which the insert is secured using an adhesive material.

7. A channel according to claim 1, in which the insert is secured by being moulded onto the channel base and walls.

8. A channel according to claim 1, in which the channel base, side walls and lips are produced by extrusion.

In re Appln. of Maass
Corres. to Int'l Application No. PCT/GB00/02975

9. A window sealing and guiding channel for sealing and guiding a window glass having a sharp corner, the channel having a base and integral first and second channel walls each having a distal edge carrying a respective lip, the first wall being cut through to separate its distal edge portion including the lip from the remainder of the wall, the cut extending along the length of the each wall from a first position on one side of the sharp corner, and through the sharp corner, the second wall being cut through at the sharp corner to separate a distal edge portion thereof including the respective lip from the remainder of that wall, the distal edge portion of the second wall being itself cut through at the sharp corner to form a mitred joint therein matching the sharp corner, the distal edge portion of the first wall being formed into a smooth curve bridging across the sharp corner, an insert being secured in position between and spacing apart the distal edge portion of the first wall and the said remainder thereof, the insert having a size which from the said first position to the sharp corner progressively increases the spacing between the distal edge portion of the first wall and the remainder thereof and thereafter progressively decreases that spacing to zero at a second position on the opposite side of the sharp corner to the first position, in which the channel has a third channel wall having a distal edge carrying a respective lip, the third wall being adjacent the first side wall and being cut through to separate its distal edge portion including the lip from the remainder of the wall, the cut extending along the length of the wall from the first position and through the sharp corner, the distal edge portion of the third wall being formed into a smooth curve bridging across the sharp corner between the smooth curve of the distal edge portion of the first wall and the mitred joint of the distal edge portion of the second wall and overlying the insert, the remainder of the first, second and third walls and the

base of the channel being removed at the sharp corner and replaced by a moulded channel part integrally moulded with the insert.

10. A channel according to claim 9, in which the insert is previously produced by a moulding operation.

11. A channel according to claim 9, in which the respective lips of the first and third walls partially bridge across the mouth of the channel for contacting and sealing against opposite sides of the window glass.

12. A channel according to claim 1, including a lip within the channel and incliningly extending from the base thereof for engaging an edge of the window glass.

13. A channel according to claim 1, in which the window glass is a slidable window glass in a motor vehicle.

14. A channel according to claim 13, in which is mounted in a rigid frame carried by the door of the motor vehicle.

SEALING AND GUIDING STRIP FOR A WINDOW

The invention relates to a window sealing and guiding channel for a window opening having a sharp corner, comprising a channel base and first and second integral channel side walls made of flexible material, each side wall having a lip extending along its distal edge, the lip on the first side wall being separated from that side wall over a region extending along a portion of the channel including the sharp corner, the separated lip smoothly bridging across the sharp corner, the lip on the second side wall being separated from that side wall at the corner and mitre-cut there to form a mitre joint matching the sharp angle, an insert being secured between the separated lip of the first side wall and the remainder of that side wall over the said region.

The invention also relates to a window sealing and guiding channel for sealing and guiding a window glass having a sharp corner, the channel having a base and integral first and second channel walls each having a distal edge carrying a respective lip, the first wall being cut through to separate its distal edge portion including the lip from the remainder of the wall, the cut extending along the length of the each wall from a first position on one side of the sharp corner, and through the sharp corner, the second wall being cut through at the sharp corner to separate a distal edge portion thereof including the respective lip from the remainder of that wall, the distal edge portion of the second wall being itself cut through at the sharp corner to form a mitred joint therein matching the sharp corner, the distal edge portion of the first wall being

formed into a smooth curve bridging across the sharp corner, an insert being secured in position between and spacing apart the distal edge portion of the first wall and the said remainder thereof, the insert having a size which from the said first position to the sharp corner progressively increases the spacing between the distal edge portion of the first wall and the remainder thereof and thereafter progressively decreases that spacing to zero at a second position on the opposite side of the sharp corner to the first position.

Such channels are shown for example in GB-A-2 311 799. However, the insert, which may be separately manufactured, may present a slightly different appearance as compared with the channel walls.

According to the invention, therefore, the channel as first set forth above is characterised in that the channel further comprises a third wall extending from the channel base adjacent the first side wall and made of flexible material, the third wall having a lip extending along its distal edge which is separated from that side wall at the corner and which follows a smooth curve between the mitre joint of the second side wall lip and the curve of the first side wall lip and which thereby substantially overlies the said insert.

Also according to the invention, the channel as secondly set forth above is characterised in that the channel has a third channel wall having a distal edge carrying

a respective lip, the third wall being adjacent the first side wall and being cut through to separate its distal edge portion including the lip from the remainder of the wall, the cut extending along the length of the wall from the first position and through the sharp corner, the distal edge portion of the third wall being formed into a smooth curve bridging across the sharp corner between the smooth curve of the distal edge portion of the first wall and the mitred joint of the distal edge portion of the second wall and overlying the insert, the remainder of the first, second and third walls and the base of the channel being removed at the sharp corner and replaced by a moulded channel part integrally moulded with the insert.

Sealing and guiding strips for windows in motor vehicle bodies, and embodying the invention, will now be described, by way of example only, with reference to the accompanying diagrammatic drawings in which:

Figure 1 is a side view of a vehicle door;

Figure 2 is an enlarged view of the area II of Figure 1, showing one of the sealing and guiding strips;

Figure 3 is a section on the line III-III of Figure 2;

Figure 4 is a section on the line IV-IV of Figure 2;

Figure 5 is a perspective view of the window frame and sealing strip and corresponding to Figure 2; and

Figure 6 is a perspective view of a moulded insert used in the strip.

Figure 1 shows a vehicle door 10 carrying a window frame 12. A pane of window glass 14 is slidable in a vertical direction in the window frame 12 and can be raised from and lowered into the lower part of the door 10. The window frame 12 is produced from metal or other stiff material and is formed to produce a sharp corner 16.

In a manner to be explained in more detail below, the window frame 12 is of channel-shape in cross-section and supports a sealing and guiding strip 18 produced from flexible material such as plastics or rubber and in which the window glass 14 slides. The sealing and guiding channel 18 is designed to provide a weather-proof seal for the edge of the window glass and also to impose low friction on the movement of the glass.

Figures 2 and 5 show, to an enlarged scale, the window frame 12 and the sealing and guiding channel 18 in the region II of Figure 1. The window frame 12, which will be described in more detail with reference to Figures 3 and 4, defines a stiff mounting channel 20 (Fig. 5) in which is supported the sealing and guiding channel 18. The

channel 18 has a base 22 and side walls 24 and 26. Each of these side walls 24,26 terminates in a respective lip 28,30, the lips having portions 28A and 30A which overlap the respective distal edges of the side walls of the mounting channel 20.

5 A third wall 25 extends from the channel base 22 adjacent the side wall 24. The wall 25 has a lip 29 which has a portion 29A which abuts (but is not connected to) the lip 28 of the wall 24. The lips 29 and 30 also have a portions 29B and 30B which extend partway across the mouth of the sealing and guiding channel 18.

10 As shown most clearly in Figure 5, the longitudinal extension of the lip 30 matches the sharp corner 16 of the window frame 12. However, the longitudinal extension of the lip 28 is shaped differently and bridges across the sharp corner 16 in a smooth radius, as indicated over the region A in Figure 5. At the region A, the side wall 24 has to be extended, of course, as indicated at 24A. The smooth radius region A is
15 positioned on the inside of the window glass 14.

Similarly, the longitudinal extension of the lip 29 bridges across the sharp corner 16 in a smooth radius. This is indicated over region B of Figure 5. It will be seen that the radius B is shorter than radius A and that the smooth curve of the lip 29 follows
20 a path between the smooth curve of the lip 28 and the sharp corner of the lip 30.

The channel 18 is produced by an extrusion process from plastics or rubber.

Figure 3 shows a cross-section through the extruded channel 18 at the line III-III of Figure 2. Figure 3 also shows the window frame 12 in more detail.

As shown in Figure 3, the window frame 12 comprises channel-shaped metal producing the mounting channel 20, a frame member 36 supporting the channel 20, and an outer trim strip 38. The latter is bent to attach it to one of the walls of the mounting channel 20 and to one of the edges (not shown) of the outer frame member 36. The latter is bent over the opposite distal edge of the mounting channel 20.

The window channel 18 defines shoulders 40 and 42 on the outsides of the side walls 24,26 and positioned near the base 22 of the channel. These shoulders 40,42 engage indentations formed in the mounting channel 20 and thus locate the window channel 18 securely in position.

Figure 3 also shows that the window channel 18 includes a lip 44 at the base of the channel against which the edge of the window glass abuts when the window is fully closed. The outwardly facing surface of the lip 44 is covered with flock 46 to provide improved sealing and low friction. As the window glass enters the channel, the lip surfaces 28B and 29B are bent inwardly to allow passage of the window glass. The surfaces of the lip portions 28B and 29B which contact the glass are also covered with the flock 46.

The channel 18 is produced to have the cross-section shown in Figure 3 and a length equal to that from points S and X in Figure 1. However, after the extrusion process, a cut is made through the side wall 24 of the channel of the position indicated by the line 27 to sever the lip 28 from the remainder of the side wall. This cut starts at the point U in Figure 1 and continues to the point T on the other side of the corner. It will be appreciated that, although the start and end points of this cut are indicated on Figure 1, the cut is in fact made before the channel 18 is mounted on the frame. An insert 47 (Figure 6) is then placed in position as will now be described. This insert produces the required sharp corner in the channel walls 25 and 26 and the lip 30 and the required extended side wall 24A over the region A. The insert may be previously moulded and adhesively secured to the channel or may be moulded in situ after the extruded channel has been cut.

Figure 4 shows a section through the channel 18 at a position after the beginning U of the cut. As shown in Figure 4, the side wall 24 has been cut through and a moulded portion 48 of the insert 47 has been inserted. The moulded portion 48 provides the desired increase in the length of the side wall 24.

The moulded portion 48 smoothly increases in size towards the corner 16, thus progressively increasing the length of the side wall 24 as shown in Figure 6 and thereby producing the extended side wall portion 24A.

As shown in Figure 6, the moulded portion 48 merges with a channel-shaped moulded portion 50 which is also shown in Figure 4, being a cross-section at the corner 16. The side walls 25 and 26 and the lip 30 are cut away to accommodate the channel-shaped portion 50.

At the line C-C of Figure 2, the moulded insert 47 no longer exists, and the separated parts of the side wall 24 are simply secured together - and this is continued to the end T of the channel 18.

In this way, the sealing and guiding channel 18 can be given a sharp radius to match the sharp corner 16 of the frame on the outside of the window and a smooth radius on the inside of the window.

Also, by providing a third wall 25, the portion 48 of the insert 47 may be hidden from view by the lip 29 of the wall 25. This is shown most clearly in Figure 4 where it will be noted that the lip portion 29A is in contact with the side wall 24 approximately at the point where it is secured to the distal edge 49 of the moulded portion 48 of the insert 47. Thus the wall 25 completely hides the moulded portion 48 from view. This is advantageous because it means that the sheen and colour of the moulded insert 47 need not match that of the sealing and guiding strip 18.

It will be noted that the effect of the smooth radius for the lip 29 over the region A,

means that the lip 29 follows a shorter path than the lips 28 and 30; which follow the sharp corner 16. The excess length of the lip 29 is removed by making a cut at 52, removing the excess length and rejoining the ends. The cut 52 could be made at any point along the arc A.

CLAIMS

1. A window sealing and guiding channel for a window opening having a sharp corner, comprising a channel base (22) and first and second integral channel side walls (24,26) made of flexible material, each side wall (24,26) having a lip (28,30) extending along its distal edge, the lip (28) on the first side wall (24) being separated from that side wall (24) over a region extending along a portion of the channel including the sharp corner, the separated lip smoothly bridging across the sharp corner, the lip (30) on the second side wall (26) being separated from that side wall at the corner and mitre-cut there to form a mitre joint matching the sharp angle, an insert (47,48) being secured between the separated lip (28) of the first side wall (24) and the remainder of that side wall (24) over the said region, characterised in that the channel further comprises a third wall (25) extending from the channel base (22) adjacent the first side wall (24) and made of flexible material, the third wall (25) having a lip (29) extending along its distal edge which is separated from that side wall (25) at the corner and which follows a smooth curve between the mitre joint of the second side wall lip (26) and the curve of the first side wall lip (28) and which thereby substantially overlies the said insert.

2. A channel according to claim 1, characterised in that the base (22) and at least parts of the walls (24,25,26) are removed at the sharp corner and replaced by corresponding parts of the said insert (47,48), the corresponding parts being secured in position in the channel.

3. A channel according to claim 1 or 2, characterised in that the lip (28) of the said first side wall (24) is separated from that side wall (24) not only over the said region but also to an end of the channel, the separated lip (28) being re-secured to the first side wall (24) outside the said region.

5

4. A channel according to any preceding claim, characterised in that the lip (29) of the third wall (25) is separated from that wall (25) not only over the said region but also to an end of the channel, the separated lip (29) being re-secured to the third wall (25) outside the said region.

10

5. A channel according to any preceding claim, characterised in that the insert (47) is a moulded insert.

15

6. A channel according to any preceding claim, characterised in that the insert (47) is secured using an adhesive material.

7. A channel according to any of claims 1 to 5, characterised in that the insert (47) is secured by being moulded onto the channel base (22) and walls (24,25,26).

20

8. A channel according to any preceding claim characterised in that the channel base (22), side walls (24,25,26) and lips (28,29,30) are produced by extrusion.

9. A window sealing and guiding channel for sealing and guiding a window glass having a sharp corner, the channel having a base (22) and integral first (24) and second (26) channel walls each having a distal edge carrying a respective lip (28,30), the first wall (24) being cut through to separate its distal edge portion including the lip (28) from the remainder of the wall (24), the cut extending along the length of the each wall (24) from a first position on one side of the sharp corner, and through the sharp corner, the second wall (26) being cut through at the sharp corner to separate a distal edge portion thereof including the respective lip (30) from the remainder of that wall (26), the distal edge portion of the second wall (26) being itself cut through at the sharp corner to form a mitred joint therein matching the sharp corner, the distal edge portion of the first wall (24) being formed into a smooth curve bridging across the sharp corner, an insert (47,48) being secured in position between and spacing apart the distal edge portion of the first wall (24) and the said remainder thereof, the insert (47,48) having a size which from the said first position to the sharp corner progressively increases the spacing between the distal edge portion of the first wall (24) and the remainder thereof and thereafter progressively decreases that spacing to zero at a second position on the opposite side of the sharp corner to the first position, characterised in that the channel has a third channel wall (25) having a distal edge carrying a respective lip (29), the third wall (25) being adjacent the first side wall (24) and being cut through to separate its distal edge portion including the lip (29) from the remainder of the wall, the cut extending along the length of the wall (25) from the first position and through the sharp corner, the distal edge portion of the third wall (25)

being formed into a smooth curve bridging across the sharp corner between the smooth curve of the distal edge portion of the first wall (24) and the mitred joint of the distal edge portion of the second wall (26) and overlying the insert (47,48), the remainder of the first, second and third walls (24,26,25) and the base (22) of the channel being removed at the sharp corner and replaced by a moulded channel part (50) integrally moulded with the insert (47,48).

10. A channel according to claim 9, characterised in that the insert (47,48) is previously produced by a moulding operation.

11. A channel according to claim 9 or 10, characterised in that the respective lips (28,29) of the first and third walls (24,25) partially bridge across the mouth of the channel for contacting and sealing against opposite sides of the window glass.

12. A channel according to any preceding claim, characterised by a lip (44) within the channel and incliningly extending from the base (22) thereof for engaging an edge of the window glass.

13. A channel according to any preceding claim, characterised in that the window glass is a slidable window glass in a motor vehicle.

14. A channel according to claim 13, characterised in that it is mounted in a rigid

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(19) World Intellectual Property Organization
International Bureau



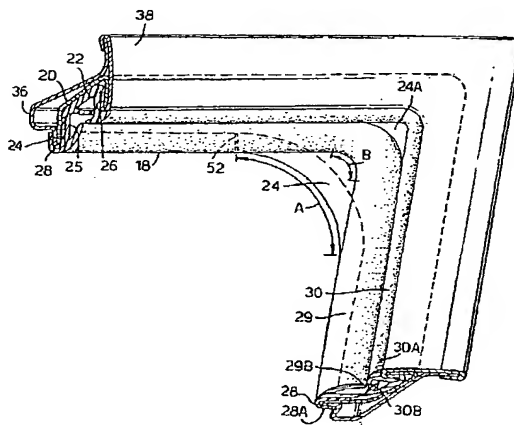
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- Published:**
— With international search report.
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(54) Title: SEALING AND GUIDING STRIP FOR A WINDOW



(57) Abstract: A window sealing and guiding channel (18) for a window frame (12) carried by a vehicle door is arranged to match the sharp angle at the corner (16) of the frame (12). A distal lip (28) of the wall of the channel (18) on the inside of the window is severed from the remainder of the channel side wall (24) from a point (U) on one side of the sharp corner (16), through the sharp corner (16) to the end of the channel, and this lip (28) is bent into a smooth curve (A) to bridge across the sharp corner. The lip (30) on the other channel side wall (26) is also severed from the remainder of its side wall at the sharp corner (16). In addition, the lip (30) of this side wall is cut through to form a mitred joint matching the angle at the sharp corner (16). The remainder of the channel (18) is removed at the sharp corner and replaced by a previously moulded insert having a channel-form at the sharp corner and an extended wall portion (24A) filling the gap where the inner lip (28) bridges across the corner. A third wall (25) has a lip (29) which bridges the sharp corner (16) in a smooth curve between the other lips (28) and (30) thereby hiding the moulded insert (47) from view.

Fig.1.

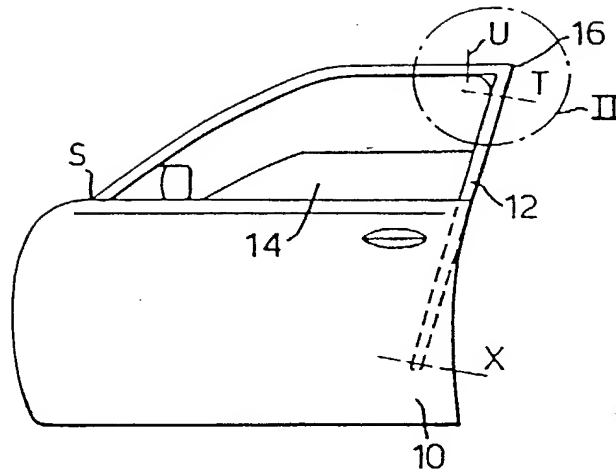
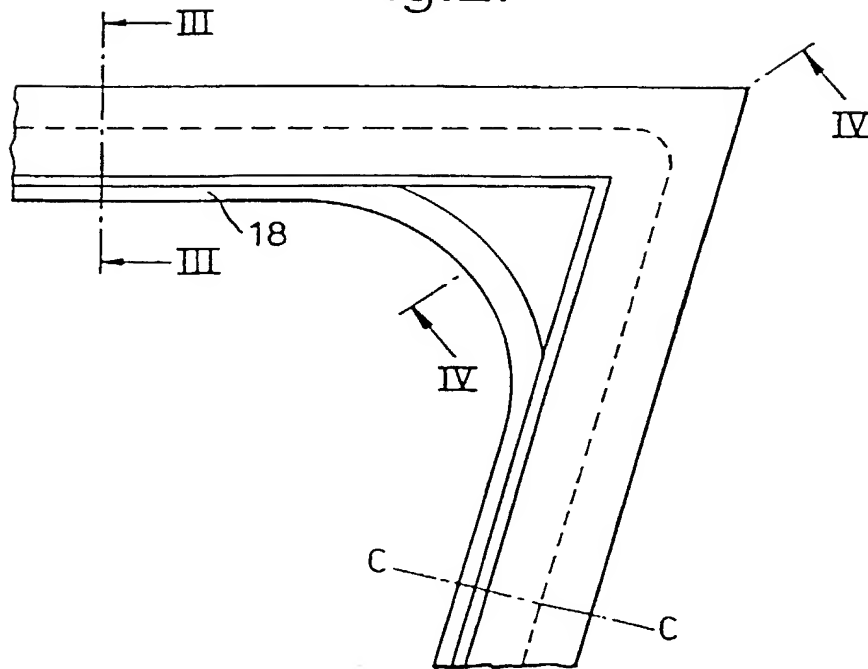


Fig.2.



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Fig.3.

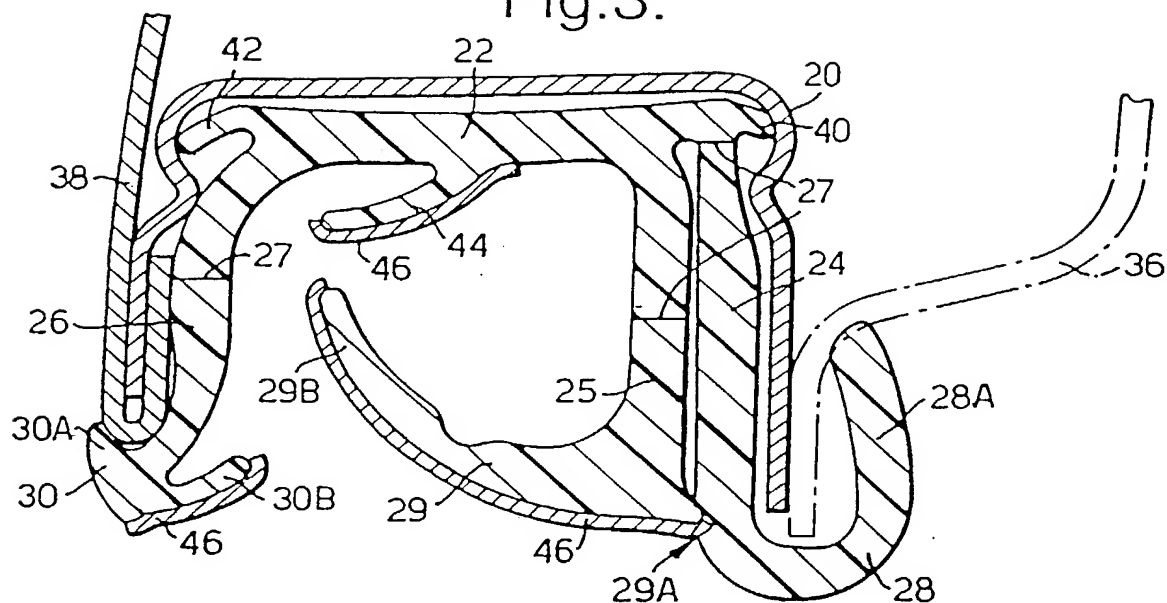


Fig.4.

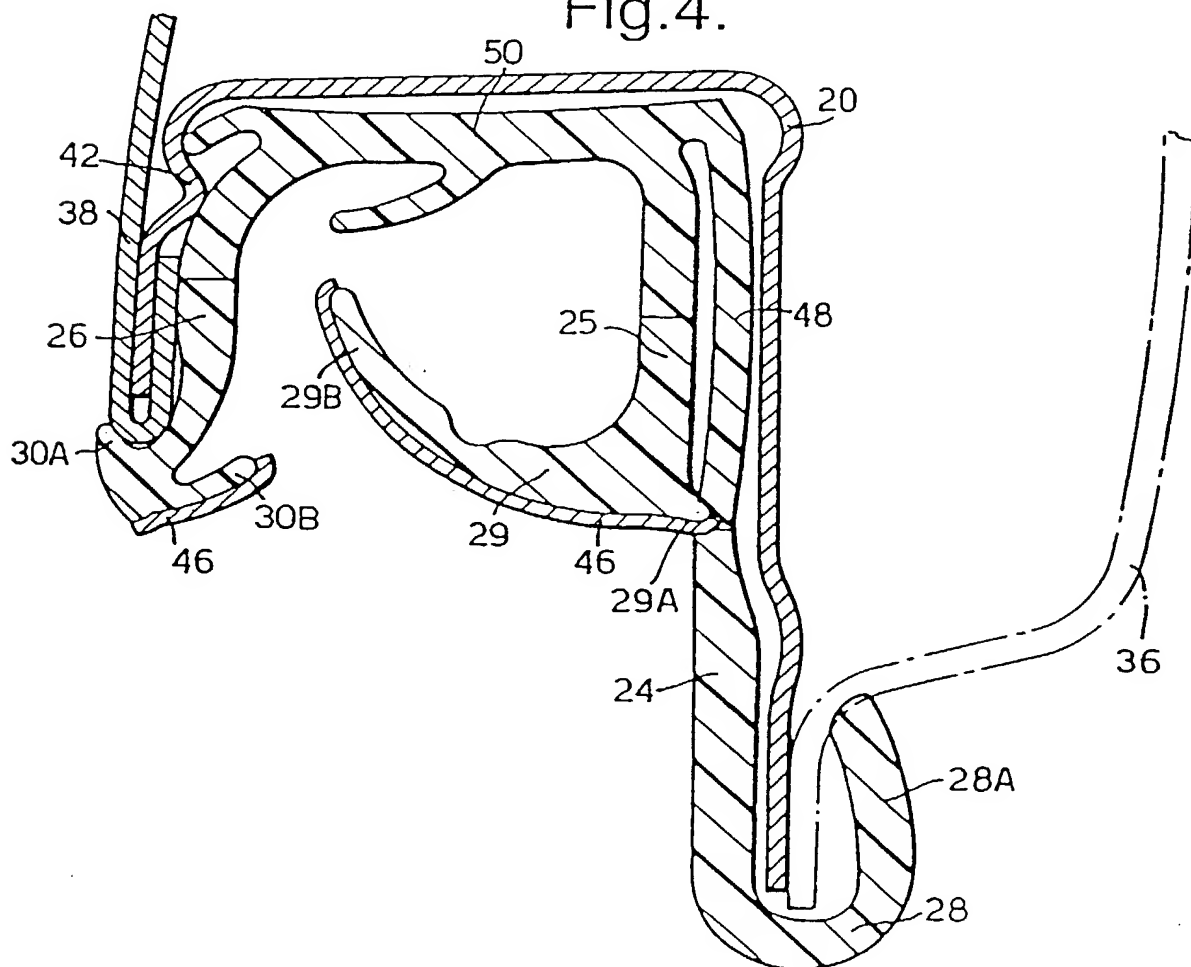


Fig.5.

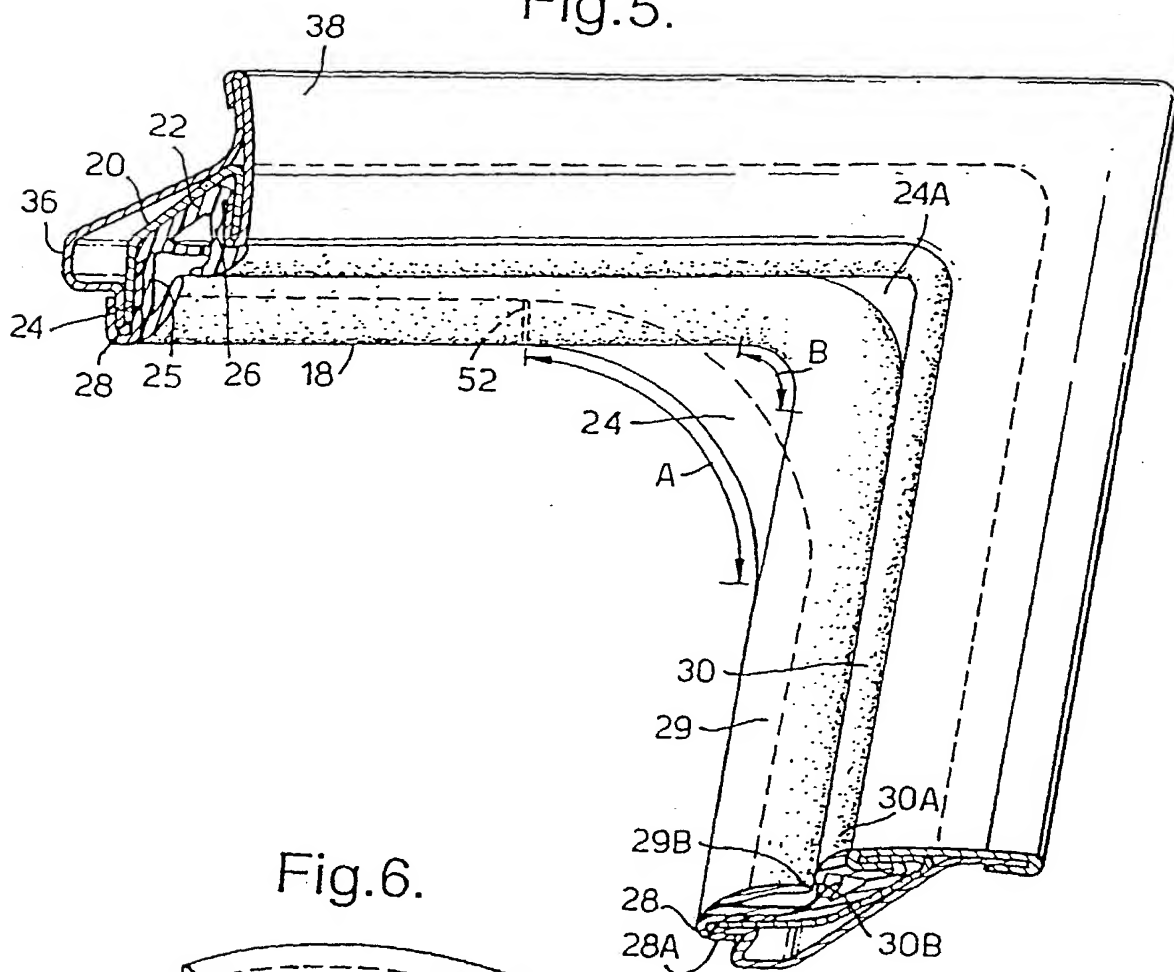
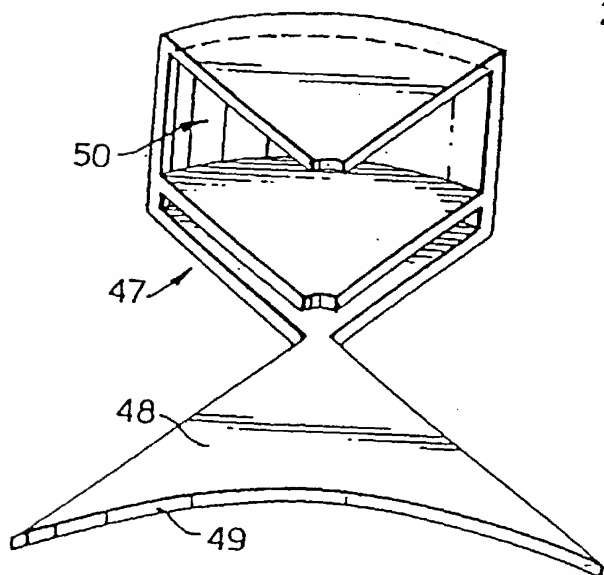


Fig.6.



As below named inventor, I hereby declare that

☐ original ☐ design ☐ supplemental
☒ national stage of PCT
☐ divisional ☐ continuation ☐ continuation-in-part

Sealing and Guiding Strip for a Window

☐ is attached hereto.

☐ was filed on _____ as Application No. _____ and was amended on _____
(if applicable).

☐ was filed by Express Mail No. _____ as Application No. not known yet, and was amended on _____
(if applicable).

☒ was described and claimed in PCT International Application No. GB00/02975 filed on
2 August 2000 and as amended pursuant to PCT Article 19 on _____
(if any).

I acknowledge the duty to disclose information that is material to the patentability of this application in accordance with 37 C.F.R. § 1.56.

I claim foreign priority benefits under 35 U.S.C. § 119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent, utility model, design registration, or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

PRIOR FOREIGN PATENT, UTILITY MODEL, AND DESIGN REGISTRATION APPLICATIONS						
COUNTRY	APPLICATION	DATE OF FILING (day,month,year)	PRIORITY CLAIMED UNDER 35 U.S.C. § 119			
UNITED KINGDOM	9920394.5	27 August 1999	X	YES		NO
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				YES		NO

I claim the benefit pursuant to 35 U.S.C. § 119(e) of the following United States provisional application(s):

1999 1998 1997 1996 1995 1994 1993 1992 1991 1990 1989 1988 1987 1986 1985 1984 1983 1982 1981 1980 1979 1978 1977 1976 1975 1974 1973 1972 1971 1970 1969 1968 1967 1966 1965 1964 1963 1962 1961 1960 1959 1958 1957 1956 1955 1954 1953 1952 1951 1950 1949 1948 1947 1946 1945 1944 1943 1942 1941 1940 1939 1938 1937 1936 1935 1934 1933 1932 1931 1930 1929 1928 1927 1926 1925 1924 1923 1922 1921 1920 1919 1918 1917 1916 1915 1914 1913 1912 1911 1910 1909 1908 1907 1906 1905 1904 1903 1902 1901 1900 1899 1898 1897 1896 1895 1894 1893 1892 1891 1890 1889 1888 1887 1886 1885 1884 1883 1882 1881 1880 1879 1878 1877 1876 1875 1874 1873 1872 1871 1870 1869 1868 1867 1866 1865 1864 1863 1862 1861 1860 1859 1858 1857 1856 1855 1854 1853 1852 1851 1850 1849 1848 1847 1846 1845 1844 1843 1842 1841 1840 1839 1838 1837 1836 1835 1834 1833 1832 1831 1830 1829 1828 1827 1826 1825 1824 1823 1822 1821 1820 1819 1818 1817 1816 1815 1814 1813 1812 1811 1810 1809 1808 1807 1806 1805 1804 1803 1802 1801 1800 1799 1798 1797 1796 1795 1794 1793 1792 1791 1790 1789 1788 1787 1786 1785 1784 1783 1782 1781 1780 1779 1778 1777 1776 1775 1774 1773 1772 1771 1770 1769 1768 1767 1766 1765 1764 1763 1762 1761 1760 1759 1758 1757 1756 1755 1754 1753 1752 1751 1750 1749 1748 1747 1746 1745 1744 1743 1742 1741 1740 1739 1738 1737 1736 1735 1734 1733 1732 1731 1730 1729 1728 1727 1726 1725 1724 1723 1722 1721 1720 1719 1718 1717 1716 1715 1714 1713 1712 1711 1710 1709 1708 1707 1706 1705 1704 1703 1702 1701 1700 1699 1698 1697 1696 1695 1694 1693 1692 1691 1690 1689 1688 1687 1686 1685 1684 1683 1682 1681 1680 1679 1678 1677 1676 1675 1674 1673 1672 1671 1670 1669 1668 1667 1666 1665 1664 1663 1662 1661 1660 1659 1658 1657 1656 1655 1654 1653 1652 1651 1650 1649 1648 1647 1646 1645 1644 1643 1642 1641 1640 1639 1638 1637 1636 1635 1634 1633 1632 1631 1630 1629 1628 1627 1626 1625 1624 1623 1622 1621 1620 1619 1618 1617 1616 1615 1614 1613 1612 1611 1610 1609 1608 1607 1606 1605 1604 1603 1602 1601 1600 1599 1598 1597 1596 1595 1594 1593 1592 1591 1590 1589 1588 1587 1586 1585 1584 1583 1582 1581 1580 1579 1578 1577 1576 1575 1574 1573 1572 1571 1570 1569 1568 1567 1566 1565 1564 1563 1562 1561 1560 1559 1558 1557 1556 1555 1554 1553 1552 1551 1550 1549 1548 1547 1546 1545 1544 1543 1542 1541 1540 1539 1538 1537 1536 1535 1534 1533 1532 1531 1530 1529 1528 1527 1526 1525 1524 1523 1522 1521 1520 1519 1518 1517 1516 1515 1514 1513 1512 1511 1510 1509 1508 1507 1506 1505 1504 1503 1502 1501 1500 1499 1498 1497 1496 1495 1494 1493 1492 1491 1490 1489 1488 1487 1486 1485 1484 1483 1482 1481 1480 1479 1478 1477 1476 1475 1474 1473 1472 1471 1470 1469 1468 1467 1466 1465 1464 1463 1462 1461 1460 1459 1458 1457 1456 1455 1454 1453 1452 1451 1450 1449 1448 1447 1446 1445 1444 1443 1442 1441 1440 1439 1438 1437 1436 1435 1434 1433 1432 1431 1430 1429 1428 1427 1426 1425 1424 1423 1422 1421 1420 1419 1418 1417 1416 1415 1414 1413 1412 1411 1410 1409 1408 1407 1406 1405 1404 1403 1402 1401 1400 1399 1398 1397 1396 1395 1394 1393 1392 1391 1390 1389 1388 1387 1386 1385 1384 1383 1382 1381 1380 1379 1378 1377 1376 1375 1374 1373 1372 1371 1370 1369 1368 1367 1366 1365 1364 1363 1362 1361 1360 1359 1358 1357 1356 1355 1354 1353 1352 1351 1350 1349 1348 1347 1346 1345 1344 1343 1342 1341 1340 1339 1338 1337 1336 1335 1334 1333 1332 1331 1330 1329 1328 1327 1326 1325 1324 1323 1322 1321 1320 1319 1318 1317 1316 1315 1314 1313 1312 1311 1310 1309 1308 1307 1306 1305 1304 1303 1302 1301 1300 1299 1298 1297 1296 1295 1294 1293 1292 1291 1290 1289 1288 1287 1286 1285 1284 1283 1282 1281 1280 1279 1278 1277 1276 1275 1274 1273 1272 1271 1270 1269 1268 1267 1266 1265 1264 1263 1262 1261 1260 1259 1258 1257 1256 1255 1254 1253 1252 1251 1250 1249 1248 1247 1246 1245 1244 1243 1242 1241 1240 1239 1238 1237 1236 1235 1234 1233 1232 1231 1230 1229 1228 1227 1226 1225 1224 1223 1222 1221 1220 1219 1218 1217 1216 1215 1214 1213 1212 1211 1210 1209 1208 1207 1206 1205 1204 1203 1202 1201 1200 1199 1198 1197 1196 1195 1194 1193 1192 1191 1190 1189 1188 1187 1186 1185 1184 1183 1182 1181

PRIOR U.S. PROVISIONAL APPLICATIONS BENEFIT CLAIMED UNDER 35 U.S.C. 119(e)	
APPLICATION NO.	DATE OF FILING (day,month,year)

I claim the benefit pursuant to 35 U.S.C. § 120 of any United States application(s) or PCT international application(s) designating the United States of America listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose material information as defined in 37 C.F.R. § 1.56 effective between the filing date of the prior application(s) and the national or PCT international filing date of this application.

PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL PATENT APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C. 120					
U.S. APPLICATIONS			Status <i>(check one)</i>		
APPLICATION NO.	U.S. FILING DATE		PATENTED	PENDING	ABANDONED
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2. 0 /					
3. 0 /					
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4. GB00/02975	22 August 2000				
5.					
6.					

DETAILS OF FOREIGN APPLICATIONS FROM WHICH PRIORITY CLAIMED UNDER 35 U.S.C. §119 FOR ABOVE LISTED U.S./PCT APPLICATIONS				
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2.				
3.				
4.				
5.				
6.				

In re Appln. of
Attorney Docket No.

As a named inventor, I hereby appoint Leydig, Voit & Mayer, Ltd. to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: Customer Number 23460.



I further direct that correspondence concerning this application be directed to Leydig, Voit & Mayer, Ltd.: Customer Number 23460.



I declare that all statements made herein of my own knowledge are true, that all statements made on information and belief are believed to be true, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

1-00
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